

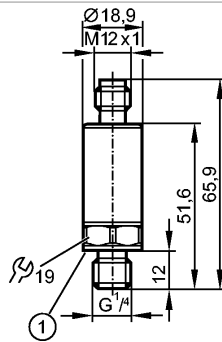


# PT5423

PT-060-SEG14-A-ZVG/US/ /W



Pressure sensors



1: Process connection sealing FKM / DIN 3869



## Product characteristics

Electronic pressure sensor

for industrial applications

Process connection: G ¼ A (according to DIN EN ISO 1179-2)

Analog output

Measuring range: 0...60 bar

## Application

Application	Type of pressure: relative pressure Group 2 fluids according to the Pressure Equipment Directive (PED), group 1 fluids on request
Pressure rating [bar]	150 (static)
Bursting pressure min. [bar]	900
Vacuum resistance [mbar]	-1000
Medium temperature [°C]	-40...90

## Electrical data

Electrical design	DC
Operating voltage [V]	8.5...36 DC
Insulation resistance [MΩ]	> 100 (500 V DC)
Protection class	III
Reverse polarity protection	yes

## Outputs

Output	Analog output
Output function	4...20 mA analog
Short-circuit proof	yes
Overload protection	yes
Analog output	4...20 mA
Max. load [Ω]	( $U_b - 8.5 \text{ V}$ ) / 21.5 mA; 720 at $U_b = 24 \text{ V}$

## Measuring / setting range

Measuring range [bar]	0...60
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## Accuracy / deviations

Accuracy / deviations (in % of the span)	
Characteristics deviation *)	< ± 0.5
Linearity	< ± 0.1 (BFSL) / < ± 0.2 (LS)
Hysteresis	< ± 0.2
Repeatability **)	< ± 0.05



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Long-term stability (***)	< ± 0.1
Temperature coefficients (TEMPCO) in the temperature range -40...90° C (in % of the span per 10 K)	
Greatest TEMPCO of the zero point + span	< 0.1 (-25...90 °C) / < 0.2 (-40...-25 °C)

### Reaction times

Step response time analogue output [ms]	1
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### Environment

Ambient temperature [°C]	-40...90
Storage temperature [°C]	-40...100
Protection	IP 67 / IP 69K

### Tests / approvals

Pressure equipment directive	97/23/EG: sound engineering practice
EMC	DIN EN 61000-6-2 DIN EN 61000-6-3
Shock resistance	DIN EN 60068-2-27      50 g (11 ms)
Vibration resistance	DIN EN 60068-2-6      20 g (10...2000 Hz)
MTTF [Years]	784

### Mechanical data

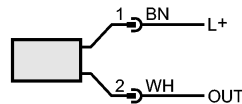
Process connection	G ¼ A (according to DIN EN ISO 1179-2)
Process connection sealing	FKM (to DIN 3869)
Materials (wetted parts)	1.4542 (17-4 PH / 630) <sup>2</sup>
Housing materials	1.4542 (17-4 PH / 630) <sup>2</sup> ; stainless steel (316L / 1.4404); PEI
Min. pressure cycles	60 millions in the course of the lifetime (at 1.2 times the nominal pressure)
Tightening torque [Nm]	25...35 (recommended tightening torque <sup>1</sup> )
Restrictor element integrated	no
Weight [kg]	0.056

### Electrical connection

Connection	M12 connector
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#### Wiring

Core colors  
 BN brown  
 WH white



OUT: 4...20 mA

The following pin connection is available on request:

pin 1: L+, pin 3: OUT

Colours to DIN EN 60947-5-2

### Remarks

Remarks	<p>*) incl. drift when overtightened, zero point and span error, non-linearity, hysteresis</p> <p>**) with temperature fluctuations &lt; 10 K</p> <p>***) in% of the span / 6 months</p> <p><sup>1</sup>) Depends on lubrication, seal and pressure rating</p> <p><sup>2</sup>) Characteristics similar to stainless steel (e.g. 304/1.4301) but higher strength.</p>
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**Pressure sensors**

BFSL = Best Fit Straight Line / LS = Limit Value Setting

Pack quantity

[piece]

1